

ABSTRACT OF THE DISCLOSURE

An impact-induced pulse sensor comprises a housing having a longitudinal axis and a guiding element arranged on the housing. A sensor element is adapted to be displaced within the housing along the guiding element when an essentially pulse-shaped impact of a given duration is exerted on the housing. The sensor element is displaced with a predetermined speed and along a predetermined distance. The guiding element is configured such as to affect the speed. The sensor element is made of a magnetic material. A pickup element is rigidly connected to the housing for magnetically generating a measuring signal derived from the displacing of the sensor element caused by the impact. The sensor element, when displaced, generates in the pickup element a measuring voltage depending from the distance. The guiding element affects the speed such that for impacts with like pulse areas the measuring voltage vs distance is independent from the duration of the pulse-shaped impact.